

Proceedings of the Madison Botanical Congress.¹

WEDNESDAY, AUGUST 23, 10 A. M.

The Congress was called to order in the Physical Lecture Room of Science Hall by Dr. J. C. Arthur, Chairman of the Committee on Arrangements.

The chairman gave an account of the origin of the present Congress, and the steps which had been taken to secure a full attendance, not only of American botanists, but also an adequate representation of foreign ones.

A committee consisting of Messrs. Bessey, Britton, Mac-Millan, Tracy and Davis, was appointed to nominate officers for the Congress, and a recess was taken until the committee was ready to report.

Upon reconvening the committee first offered the following resolution pertaining to the official name of the Congress, which was adopted without discussion:

"Resolved, that, inasmuch as the attendance of European botanists at this meeting has fallen much below the expectation of the organizing committee, so that the desired international character of the assemblage has not been realized, the name of the meeting be The Madison Botanical Congress."

The committee then presented the following nominations for the officers: For president, Edward Lee Greene, of Berkeley; for vice-presidents, Henry L. de Vilmorin, of Paris, and Lucien M. Underwood, of Greencastle; for secretaries, J. C. Arthur, of LaFayette, F. V. Coville, of Washington, and B. L. Robinson, of Cambridge; for treasurer, Charles R. Barnes, of Madison.

As Prof. Greene was not a duly qualified member of the Congress at the time, his name was withdrawn, and the other other nominations were unanimously confirmed. Subsequently his name was again presented for president and he was unanimously elected.

M. de Vilmorin presided during the remainder of the morning session.

A communication from the International Commission upon Nomenclature was read by the presiding officer, and was referred to the three American members of the International Commission.

¹As the report of the proceedings is to be published in full as soon as possible only an abstract is here given.—Eds.

A printed letter from Dr. Otto Kuntze, a copy of which had been handed to each member of the Congress upon registration was then presented, and was also referred to the American members the International Commission. The matter of the nomenclature of systematic botany being thus introduced to the Congress, it was voted that, inasmuch as the Congress did not possess the international character which had been hoped for, and could not therefore legislate upon questions of nomenclature, it should not further consider the subject.

A series of topics were presented by Secretary Arthur which had been suggested for the consideration of the Congress by various botanists, both American and foreign, a part having already been printed in the preliminary circular of the Committee of Arrangements.

The following committees were appointed to consider the topics named and to report at the next session of the Congress:

1. On the Nomenclature of Plant Diseases: B. D. Halsted, W. T. Swingle, and L. R. Jones.
2. On the Terminology of Anatomy and Morphology: D. H. Campbell, Conway MacMillan, and C. R. Barnes.
3. On the Terminology of Physiology: J. C. Arthur, W. T. Swingle, and A. S. Hitchcock.
4. On the Nomenclature of Horticultural Forms: W. Trelease, H. L. de Vilmorin, and B. L. Robinson.
5. On Bibliography: C. R. Barnes, N. L. Britton, and A. B. Seymour.

The attention of the Congress was called to the loss sustained by the botanical world in the death of Alphonse de Candolle, and George Vasey. H. L. de Vilmorin and F. V. Coville were appointed a committee to draft resolutions on the death of Alphonse de Candolle. N. L. Britton and C. E. Bessey were appointed a committee to draft resolutions on the death of George Vasey.

The Congress then adjourned until Thursday morning at ten o'clock.

In the afternoon, at two o'clock, fifty members assembled at the entrance of Science Hall, where carriages were taken for the excursion to Lake Wingra provided by the Local Committee of Arrangements. The afternoon was spent in examining and collecting specimens of the flora of the marshes, the dry morainic hills, and the edges of the lake. The trip presented an exceedingly varied flora which proved of much interest to those who participated in the excursion.

THURSDAY, AUGUST 24, 10 A. M.

The session was called to order by Vice-President Underwood, who, upon the election of E. L. Greene as President, surrendered the chair to him.

A telegram was read by Secretary Arthur from Prof. Wittmack, of Berlin, stating that his duties as judge at the Columbian Exposition prevented his attendance, and expressing his hearty good wishes for the Congress.

A committee on Geographic Botany, consisting of F. V. Coville, L. M. Underwood, and W. T. Swingle, was appointed to present this subject at the subsequent session of the Congress.

The report of the committee to draft resolutions on the death of Alphonse de Candolle was presented by M. de Vilmorin, adopted, and ordered engrossed, signed by the officers of the Congress, and transmitted to his family.

A committee on resolutions to express the appreciation of the members for the hospitality of the city was appointed: W. A. Kellerman, Miss S. M. Hallowell, and B. L. Robinson.

It was voted that discussion on the report of each committee be limited to one hour, and individual speeches to five minutes.

Report of the committee on Nomenclature of Plant Diseases was received.

The report was divided into seven sections, making suggestions for the limitation of common names now in use and the rules to be observed in applying new names.

After discussion by Vilmorin, Halsted, Swingle, Bessey, Jones, Britton, Arthur, Barnes, Kellerman, Seymour, Trelease, Coville, Carleton and Tracy, the report, after considerable amendment, was adopted.

A standing committee of seven, consisting of Messrs. Halsted, Swingle, Jones, Bessey, Kellerman, Atkinson and Galloway, was appointed to consider the subject and make a further report upon it.

A motion was passed directing all committees appointed by this Congress to report to Section G of the American Association for the Advancement of Science.

The report of the committee on the Terminology of Plant Physiology was read and partially discussed before the noon recess.

The committee reported four topics for discussion:

1. In reference to the terminology to be used regarding the several processes concerned in the use of food in building up the structure of plants. Four terms, assimilation, digestion, food, and the new term, photosyntax, were considered under this head.

2. The use of the terms fertilization, pollination, and fecundation. The committee recommended the abandonment of the term fertilization, and the use of the term pollination only to designate the transference of pollen to the stigma, and of fecundation to designate the union of the male with the female gamete.

3. The restriction of the term *physiology* to the chemical and physical part of the general subject, and placing the remainder under the title *ecology*.

4. The limitation of species, varieties and forms. This topic was not discussed for want of time.

THURSDAY, AUGUST 24, 2 P. M.

The Congress was called to order with President Greene in the chair.

The unfinished business of the morning session, the discussion of the report presented by the committee on Terminology of Plant Physiology, was resumed.

As the work of this committee and the discussion which followed were only suggestive, the three members of the committee were empowered to select two others¹, and directed to report a tentative presentation of these matters as early as possible, in order that the substance of their report might be known before the next meeting of the American Association, at which time it is to be further considered.

The report of the committee on the Terminology of Plant Anatomy and Morphology was presented by Prof. MacMillan.

The committee recognized the great complexity of the matter with which they have to deal, and recommended to the Congress that a committee of five be appointed to take under more careful consideration the difficulties presented in the nomenclature of morphology. The committee brought to the attention of the Congress the difficulties in the present terminology respecting the structure of the stem, the use of the terms male and female as applied to the flower of phanerogams, and the terms used in designating the various parts

¹MacMillan and Barnes were subsequently named.

of the sporophyte and gametophyte connected with reproduction. The committee also suggested the necessity of a general term to designate the product of fusion of two heterogametes.

After a brief discussion of the matters presented by the committee, its request for the appointment of a committee of five was concurred in. The original committee was continued, and Drs. Farlow and Thaxter were added to their number.

The report of the committee on the Nomenclature of Horticultural Forms was presented. The committee recommended:

1. That the nomenclature of the species and natural varieties used in forestry and decorative gardening should be treated by horticulturists precisely as they would be treated by botanists if found growing wild, and that they should therefore be subject to whatever rules by international agreement are adopted for general botanical nomenclature. Pending the adoption of such a code of rules, however, the names used in Nicholson's Dictionary of Gardening, so far as they go, should be used. In cases where Nicholson is insufficient, the Kew Index, now in course of publication, should be followed so far as it goes. In case of the displacement of familiar names these should be retained in parenthesis until both dealers and purchasers have become familiar with the change.
2. The nomenclature of florists' races and forms, as well as the more numerous artificial, and more or less transient forms of the fruit grower, vegetable gardener, and farmer, should be conducted on quite different lines from that of natural species and varieties, and all names used for such forms should be in the vernacular. Phrases should not be employed as names, and all such vernacular names should be limited to one, or at most two, words, avoiding high sounding or bombastic names, as well as those which have already been relegated to the list of synonyms. Priority of naming these forms should be recognized. Varieties and forms transferred to a country possessing a different language from that in which they were first named may be renamed, in case the name cannot be transferred directly to the language, the new name conforming so far as possible to the form and sense of the original name, and citing it as a synonym. For use in trade catalogues the names adopted in the official lists of various national societies should be adopted.

After brief discussion the report of the committee was adopted.

The report of the committee on Bibliography was then presented.

The committee make the following recommendations:

1. The publication of a current bibliography of American botany, comprising (a) a catalogue of papers by authors, (b) a catalogue of journals, (c) a list of acceptable abbreviations of authors' names; (d) an index of species, both new and old.
2. Rules for citations, of which the following may be taken as illustrative both of matter and typography:

Ramann, Waldbeschädigungen durch Flusssäure. Forst. Zeits. 2 : 245. Je 1893.

Fuligo septica.

Rosen, Beiträge zur Kenntniss der Pflanzenzellen. Beitr. Bot. Pfl. 6 : 247. pl. 2. f. 5. 1892.

Tulasne, Les Urédinées et les Ustilaginées. Ann. Sci. Nat. Bot. IV. 2 : 108. 1854.

Bolley, Prevention of potato scab. Bull. Exper. Sta. N. Dak. 9 : 27. 10 Mr 1893.¹

The report was discussed at length by the Congress and was referred to a standing committee of five with power to act. This committee consists of Barnes, Seymour, Britton, Hitchcock and Mrs. A. F. Stevens. It was evidently the wish of the Congress to have the matters discussed in the report of the committee settled upon as early as possible, in order that the various indexes which are now in course of preparation or publication might conform to some general scheme of typography and citation.

A committee consisting of Bessey, Britton, and MacMillan, was appointed to bring before the Congress a proper memorial regarding the exposure of the United States National Herbarium to loss by fire.

The report of the committee on the death of Dr. Vasey was read, adopted and ordered engrossed, signed by the officers of the Congress, and transmitted to his family.

The report of the committee on Geographic Botany was presented. The short time for consideration at the disposal of this committee enabled it only to present in a very informal

¹Number of part, heft, fascicle, etc., is only to be given when it stands alone. It replaces the volume number but is printed in ordinary face type.

manner the topics which should be considered at length by a standing committee. After a brief discussion of the points reported, the present committee was appointed to follow up the question and prepare a report, to be submitted to section G of the American Association.

The treasurer of the Congress reported receipts from dues, and expenditures for printing, postage and translation, leaving a balance on hand of \$1.45. The report was approved.

Question was raised in regard to the publication of the proceedings of the Congress. Mr. Barnes announced that the amount of money which was raised for the entertainment of the A. A. A. S. would probably be in excess of their expenditures, and thought it probable that a sufficient sum would be granted by the Local Committee to provide for publishing the proceedings of the Congress. The secretaries were therefore authorized to prepare the matter for publication and have it printed, the members of the Congress to assume the remainder of the expense beyond that which may be provided for by the Local Committee of Arrangements.

The report of the committee on the National Herbarium was read. The report points out the unsafe condition of the present building in which the Herbarium is located, its unusual exposure to loss by fire, and the valuable character of the collections which are contained in it, and urges that steps be taken to provide an adequate and fire-proof building for its reception.

It was directed that the memorial be engrossed, signed by the officers of the Congress, and copies transmitted to the Secretary of Agriculture, the chairman of the committee on Agriculture in the House, and the chairman of the committee on Appropriations in the Senate, of the United States Congress.

The report of the committee on Resolutions was read thanking the citizens of Madison for their hospitable entertainment, and extending thanks to Dr. Otto Kuntze for the trouble and expense which he had incurred in providing this Congress with unusual facilities for considering the question of nomenclature of taxonomy.

The Secretary of the Local Committee invited the members of the Congress after adjournment to a moonlight ride upon Lake Mendota. The invitation was accepted by about sixty, who thoroughly enjoyed the two hours excursion.

At the close of the afternoon session the Congress adjourned *sine die*.